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|---|------|--|---|---------------------|
| - | 0    | (receiver with ((multiple or plural or dual) adj antenna\$1)) and ((pre adj2 filter) and ((multiple or dual or plural) adj fir adj filter\$1)) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:26 |
| - | 0    | ((pre adj2 filter) with ((multiple or dual or plural) adj fir adj filter\$1))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>13:24 |
| - | 49   | ((pre adj2 filter) with ( fir adj filter\$1))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>13:24 |
| - | 0    | (375/347.ccls. and receiver with ((multiple or plural or dual) adj antenna\$1)) and ((pre adj2 filter) with ( fir adj filter\$1))              | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>13:48 |
| - | 0    | ((pre adj2 filter) with ( fir adj filter\$1))) and (decision adj logic)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>13:48 |
| - | 26   | ((pre adj2 filter) with ( fir adj filter\$1))) and @ad<=19991008   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>13:34 |
| - | 0    | ((pre adj2 filter) with ( fir adj filter\$1))) and @ad<=19991008) and receiverp  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>13:34 |
| - | 0    | ((pre adj2 filter) with ( fir adj filter\$1))) and @ad<=19991008) and (receiver and ((multiple or plural or dual) adj antenna\$1))             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>13:48 |
| - | 2    | ((pre adj2 filter) with ( fir adj filter\$1))) and @ad<=19991008) and (receiver and antenna\$1)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>13:46 |
| - | 0    | ((pre adj2 filter) with ( fir adj filter\$1))) and @ad<=19991008) and ((multiple or plural or dual) adj antenna\$1)                            | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>13:47 |
| - | 4    | 348/612.ccls. and (receiver and antenna\$1)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>13:46 |
| - | 0    | (348/612.ccls. and (receiver and antenna\$1)) and ((multiple or plural or dual) adj antenna\$1)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>13:47 |
| - | 2899 | (receiver and ((multiple or plural or dual) adj antenna\$1))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>14:32 |

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|---|----|---|---|---------------------|
| - | 0  | ( (receiver and ((multiple or plural or dual) adj antenna\$1))) and ((pre adj2 filter) with ( fir adj filter\$1))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>13:53 |
| - | 3  | (( (receiver and ((multiple or plural or dual) adj antenna\$1))) and (decision adj logic)) and @ad<=19991008  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>13:49 |
| - | 0  | ( (receiver and ((multiple or plural or dual) adj antenna\$1))) and ((pre adj2 filter) with ( decision adj logic))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>13:53 |
| - | 4  | ((pre adj2 filter) with ( decision adj logic))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:10 |
| - | 0  | ( ((pre adj2 filter) with ( decision adj logic))) and (receiver and ((multiple or plural or dual) adj antenna\$1))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>14:17 |
| - | 13 | ( (receiver and ((multiple or plural or dual) adj antenna\$1))) and (decision adj logic)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>14:32 |
| - | 0  | (( (receiver and ((multiple or plural or dual) adj antenna\$1))) and (decision adj logic)) and (pre adj2 filter)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:25 |
| - | 8  | (( (receiver and ((multiple or plural or dual) adj antenna\$1))) and (decision adj logic)) and ( filter)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>14:35 |
| - | 8  | (( (receiver and ((multiple or plural or dual) adj antenna\$1))) and (decision adj logic)) and ( filter)) and ((multiple or plural or dual) adj antenna\$1) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>14:32 |
| - | 1  | (( (receiver and ((multiple or plural or dual) adj antenna\$1))) and (decision adj logic)) and ( fir adj filter)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:08 |
| - | 0  | (( (receiver and ((multiple or plural or dual) adj antenna\$1))) and (decision adj logic)) and ( fir adj filter) and @ad<=19991008                          | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:12 |
| - | 0  | ((pre adj2 filter with (fir adj filter) ) with ( decision adj logic))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:10 |
| - | 0  | ((pre adj2 filter with (fir adj filter) ) and ( decision adj logic))  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:18 |

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| - | 0  | 375/349.ccls. and ((pre adj2 filter with (fir adj filter) ) with ( decision adj logic))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>08:51 |
| - | 4  | 375/349.ccls. and ((pre adj2 filter))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:11 |
| - | 4  | (375/349.ccls. and ((pre adj2 filter)) ) and receiver and @ad<=19991008   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:12 |
| - | 1  | ((375/349.ccls. and ((pre adj2 filter)) ) and receiver and @ad<=19991008) and ( fir adj filter)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:16 |
| - | 6  | 158713.ap.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:17 |
| - | 0  | 60158713.ap.  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:17 |
| - | 13 | ((pre adj2 filter and (fir adj filter) ) and ( decision adj logic))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:18 |
| - | 1  | ( ((pre adj2 filter and (fir adj filter) ) and ( decision adj logic))) and @ad<=19991008 and receiver   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:22 |
| - | 2  | ( ((( receiver and ((multiple or plural or dual) adj antenna\$1))) and (decision adj logic)) and ( filter)) and ((multiple or plural or dual) adj antenna\$1)) and @ad<=19991008 and receiver | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:22 |
| - | 0  | ( ((( receiver and ((multiple or plural or dual) adj antenna\$1))) and (decision adj logic)) and ( filter)) and ((multiple or plural or dual) adj antenna\$1)) and (pre adj2 filter)          | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:25 |
| - | 0  | ( ((pre adj2 filter) and (( multiple or dual or plural) adj fir adj filter\$1))) and @ad<=19991008  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:27 |
| - | 9  | ((pre adj2 filter) and (( multiple or dual or plural) adj fir adj filter\$1))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:29 |
| - | 0  | "4561012" and ((multiple or plural or dual) adj antenna\$1)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:31 |

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|---|-----|--|---|---------------------|
| - | 0   | 358/11.ccls. and ((multiple or plural or dual) adj antenna\$1)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:33 |
| - | 12  | "4561012"  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:32 |
| - | 0   | ( (375/347.ccls. and receiver with ((multiple or plural or dual) adj antenna\$1)) and ((pre adj2 filter) with ( fir adj filter\$1))) and ( antenna\$1) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:34 |
| - | 1   | "4561012" and ( antenna\$1)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/21<br>15:34 |
| - | 23  | 375/349.ccls. and (antenna\$1) and (fir adj filter\$1) and receiver  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>10:13 |
| - | 16  | (375/349.ccls. and (antenna\$1) and (fir adj filter\$1) and receiver ) and @ad<=19991008   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>08:52 |
| - | 1   | 375/349.ccls. and ((antenna\$1) and (fir adj filter\$1) and receiver and (decision adj logic))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>10:14 |
| - | 0   | 375/349.ccls. and ((antenna\$1) and (fir adj filter\$1) and receiver and (decision adj logic)) and @ad<=19991008                                       | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>10:14 |
| - | 0   | 375.ccls. and ((antenna\$1) and (fir adj filter\$1) and receiver and (decision adj logic)) and @ad<=19991008   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>10:14 |
| - | 0   | ( ((antenna\$1) and (fir adj filter\$1) and receiver and (decision adj logic)) and @ad<=19991008) and (pre adj2 filter\$1)                             | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>10:14 |
| - | 4   | ((antenna\$1) and (fir adj filter\$1) and receiver and (decision adj logic)) and @ad<=19991008   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>10:40 |
| - | 328 | (equalizer) and (antenna\$1) and (digital adj radio)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>10:40 |
| - | 105 | ((equalizer) and (antenna\$1) and (digital adj radio)) and receiver and logic  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>10:41 |

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|---|-------|---|---|---------------------|
| - | 105   | ((equalizer) and (antenna\$1) and (digital adj radio)) and (receiver and logic)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>10:41 |
| - | 89    | ((equalizer) and (antenna\$1) and (digital adj radio)) and (receiver and logic)) and @ad<=19991008  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>11:42 |
| - | 31    | ((equalizer) and (antenna\$1) and (digital adj radio)) and (receiver and logic)) and @ad<=19991008) and (fir adj filter\$1)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>10:41 |
| - | 31    | ((equalizer) and (antenna\$1) and (digital adj radio)) and (receiver and logic)) and @ad<=19991008) and (fir adj filter\$1)) and sampl\$3   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>11:59 |
| - | 22    | ((equalizer) and (antenna\$1) and (digital adj radio)) and (receiver and logic)) and @ad<=19991008) and (fir adj filter\$1)) and sampl\$3 ) and processor   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>11:34 |
| - | 2     | ((equalizer) and (antenna\$1) and (digital adj radio)) and (receiver and logic)) and @ad<=19991008) and (fir adj filter\$1)) and sampl\$3 ) and processor) and ((sampl\$3 adj rate) with (symbol adj rate)) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>12:00 |
| - | 22    | ((equalizer) and (antenna\$1) and (digital adj radio)) and (receiver and logic)) and @ad<=19991008) and (fir adj filter\$1)) and sampl\$3 ) and processor and antenna\$1                                    | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>11:34 |
| - | 22    | ((equalizer) and (antenna\$1) and (digital adj radio)) and (receiver and logic)) and @ad<=19991008) and (fir adj filter\$1)) and sampl\$3 ) and (processor and antenna\$1)                                  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>11:34 |
| - | 257   | ((equalizer) and (antenna\$1) and (digital adj radio)) and @ad<=19991008  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>11:42 |
| - | 170   | ((equalizer) and (antenna\$1) and (digital adj radio)) and @ad<=19991008) and sampl\$3  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>11:42 |
| - | 23    | ((equalizer) and (antenna\$1) and (digital adj radio)) and @ad<=19991008) and sampl\$3 ) and ((sampl\$3 adj rate) with (symbol adj rate))   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>11:58 |
| - | 90911 | receiver and antenna\$1   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>12:05 |
| - | 2295  | (receiver and antenna\$1) and equalizer   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>11:58 |

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|---|------|---|---|---------------------|
| - | 309  | ((receiver and antenna\$1) and equalizer) and (fir adj filter)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>12:06 |
| - | 285  | ((((receiver and antenna\$1) and equalizer) and (fir adj filter)) and sampl\$3  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>11:59 |
| - | 285  | (((((receiver and antenna\$1) and equalizer) and (fir adj filter)) and sampl\$3 ) and ad<=19991008  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>12:00 |
| - | 61   | (((((receiver and antenna\$1) and equalizer) and (fir adj filter)) and sampl\$3 ) and ad<=19991008) and (digital adj radio)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>12:05 |
| - | 17   | (((((receiver and antenna\$1) and equalizer) and (fir adj filter)) and sampl\$3 ) and ad<=19991008) and (digital adj radio)) and ((sampl\$3 adj rate) with (symbol adj rate)) | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>12:02 |
| - | 50   | (((((receiver and antenna\$1) and equalizer) and (fir adj filter)) and sampl\$3 ) and ad<=19991008) and ((sampl\$3 adj rate) with (symbol adj rate))                          | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>12:02 |
| - | 2899 | receiver and ((multiple or plural or dual) adj antenna\$1)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>12:05 |
| - | 107  | (receiver and ((multiple or plural or dual) adj antenna\$1)) and (digital adj radio)  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>12:05 |
| - | 17   | ((receiver and ((multiple or plural or dual) adj antenna\$1)) and (digital adj radio)) and (fir adj filter)   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>12:09 |
| - | 10   | ((((receiver and ((multiple or plural or dual) adj antenna\$1)) and (digital adj radio)) and (fir adj filter)) and equalizer  | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>13:14 |
| - | 10   | ((((receiver and ((multiple or plural or dual) adj antenna\$1)) and (digital adj radio)) and (fir adj filter\$1)) and equalizer   | USPAT;<br>US-PGPUB;<br>EPO; JPO;<br>DERWENT | 2003/10/22<br>12:09 |